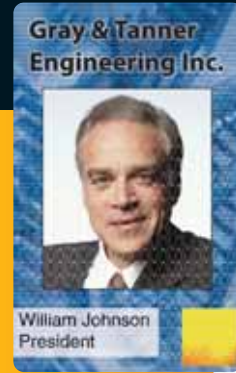


MAGICARD

secure ID card printers



when security really matters

Magicard® Secure ID Card Printers

Whatever your needs for PVC card printing, Ultra Electronics' wide range of Magicard color card printers offers you the very best in image quality, security, and innovation.

Badging



Opera

Tempo

Avalon

Alto

Rio 2e

Tango 2e

Prima 2e

Tango +L

Professional



The best warranty in the business

UltraCover^{plus} no hassle printhead cover and loaner service is Free for two years with all new Magicard professional card printers supplied in the EU or North America.

UltraCover^{plus} reduces printer downtime by providing a free loan printer to customers whose machines require factory service.

Ultra Electronics Card Systems is one of the pioneers of ID card printing, having manufactured card printers since 1993. We differentiate ourselves by providing a quality product with enhanced card security features, and through providing the best support and warranty in the business.

Ultra Electronics Card Systems is part of the international aerospace, defence and security group, Ultra Electronics plc. With 3,000 employees, located mainly across the UK and North America, Ultra Electronics concentrates on obtaining a technology edge in niche markets, with many of our products and technologies being market leaders in their field.

It's all about the card . . .

HoloKote is an anti-counterfeiting watermark across the entire card surface, which becomes visible when the card is viewed at an angle. There are no additional costs involved in printing HoloKote cards. Standard dye film is used to print HoloKote images on standard plastic cards.

HoloKote®

The Ultra patented built-in HoloKote security watermark comes free with every Tempo, Opera, Avalon, Alto, Rio 2e, Tango 2e and Tango +L printer.



HoloPatch®

Completely unique to Magicard, HoloPatch cards have a highly reflective gold 'super diffuser' seal. When used in conjunction with the HoloKote anti-counterfeiting feature, the security mark is highlighted for distance visibility.

Custom Key

Choose your own text and/or logos for the HoloKote and HoloPatch security features, using the Custom Key. Rio 2e, Tango 2e, Tango +L and Alto only.



Edge-to-Edge

Edge-to-edge full color printing produces a high quality 300dpi image right to the edge of the card.



Card Encoding - mag stripe, smart card and contactless card encoding variants are available

Badging Series

Opera :

ID Card Printer with ID Software



The best value all-in-one solution for color ID card printing. Comes complete with Magicard ID badging software.

A compact, attractive printer, easy to set up and use. Hand fed for easy one-off card printing.

Tempo :

Hand Fed ID Card Printer



Simply the best value color ID card printer.

A quality dye-sublimation ID card printer at a great price. HoloKote card watermark printed using standard consumables at no extra cost. Incredibly easy to use with drop-in dye-film ribbon and hand fed card loading.

Avalon :

Single-Sided ID Card Printer



Proven Magicard security and reliability in a great value package. The Magicard Avalon features our patented HoloKote card security which protects your cards against unauthorized copying.

Competitively priced high-quality color and monochrome ribbons.

Professional Series

Alto :

Hand Fed Secure ID Card Printer



The smallest, lightest, and best value full color professional dye-sublimation ID card printer.

This compact, attractive design is ideal for small businesses and remote sites where low volume badge printing is required.

ENCODING | SECURITY | PRINTER

Single-sided hand-fed printer
50 prints per dye film roll

HoloKote card forgery protection
Fixed design waves pattern

Magstripe

ENCODING | SECURITY | PRINTER

Single-sided hand-fed printer
250 prints per dye film roll

HoloKote card forgery protection
Fixed design linked squares pattern

Magstripe

ENCODING | SECURITY | PRINTER

Single-sided printer with hoppers
250 prints per dye film roll

HoloKote card forgery protection
Fixed design globes pattern

Magstripe

ENCODING | SECURITY | PRINTER

Single-sided hand-fed printer
100 prints per dye film roll

HoloKote card forgery protection
Custom security text

Magstripe

Rio 2e :

Secure Single-Sided ID Card Printer



The industry work horse dye-sublimation printer. The high-security Rio 2e features fully-customizable HoloKote and HoloPatch security features.

Built tough to withstand the hard work of high throughput jobs.

Now with ethernet

- ENCODING | SECURITY | **PRINTER** Single-sided printer with hoppers
350 prints per dye film roll
- HoloKote card forgery protection
Custom security logos and text
- Magstripe
Proximity/contactless
Contact chip

Tango 2e :

Double-Sided Secure ID Card Printer



High-throughput and high security. The dye-sublimation Tango 2e features fully-customizable HoloKote and HoloPatch card security features.

Built tough to withstand the hard work of high throughput jobs.

Now with ethernet

- ENCODING | SECURITY | **PRINTER** Double-sided printer with hoppers
300 double-sided prints per dye film roll
- HoloKote card forgery protection
Custom security logos and text
- Magstripe
Proximity/contactless
Contact chip

Prima 2e :

Reverse Transfer Laminating Card Printer



The reverse-transfer Prima 2e is ideal for producing top quality, highly durable cards.

The quality of the finished card is similar to that achieved by off-set litho printing, but with the advantage that every card can be different.

- ENCODING | SECURITY | **PRINTER** Double-sided printer with hoppers
1000 prints per dye film roll
- Custom holograms
- Magstripe
Proximity/contactless
Contact chip

Tango +L :

Combined Printer/Laminator



The Tango +L is a printer and laminator in one.

Based on the proven Tango print engine, and with a new design laminator, the Tango +L is the choice for reliable, secure production of both single and double sided laminated cards

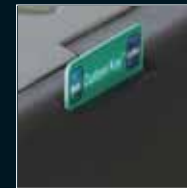
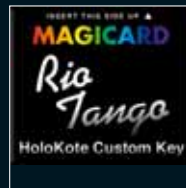
- ENCODING | SECURITY | **PRINTER + LAMINATOR** 350 prints per dye film roll
250 laminations per roll
- HoloKote card forgery protection
Standard and custom holograms
- Magstripe
Proximity/contactless
Contact chip

How is HoloKote printed onto the card?

After the color image has been printed onto the card, an overcoat (the 'O' in YMCKO) layer is added to protect the card from fading and scratching. The HoloKote pattern or logo is frosted into the overcoat at the time of printing. This is a unique Magicard patented feature and, unlike most other security logos, it involves no extra cost of printing.

How do HoloKote and HoloPatch work together as a visible security feature?

The unique HoloKote feature is daylight visible by tilting the card to view the watermark pattern. For even greater security, HoloPatch cards combined with HoloKote provide a distance-visible security mark allowing a security guard or colleague to easily identify badgeholders from a distance of six feet or more.



HoloKote Custom Key logos printed on HoloPatch cards provide the ultimate card security

	<i>Opera</i>	<i>Tempo</i>	<i>Avalon</i>	<i>Alto</i>	<i>Rio 2e / Tango 2e / Tango +L</i>	<i>Prima 2e</i>	
Printing	Print technology	Dye sublimation	Dye sublimation	Dye sublimation	Dye sublimation	Reverse transfer	
	Print speed	30 seconds Monochrome 6 seconds	40 seconds Monochrome 6 seconds	35 seconds Monochrome 6 seconds	30 seconds Monochrome 6 seconds	22 seconds single sided (Rio 2e) 46 seconds double sided (Tango 2e) Monochrome 6 seconds	30 seconds single sided 60 seconds double sided
	Card thickness	0.51mm to 1.02mm (20 mil to 40 mil)	0.51mm to 1.02mm (20 mil to 40 mil)	0.38mm to 1.6mm (15 mil to 63 mil)	0.51mm to 1.02mm (20 mil to 40 mil)	0.38mm to 1.6mm (15 mil to 63 mil)	0.25mm to 2.4mm (10 mil to 100 mil)
	Card Capacity	Hand fed - 1 card at a time	Hand fed - 1 card at a time	100 card feed hopper, 50 card output stacker	Hand fed - 1 card at a time	100 card feed hopper, 50 card output stacker	300 cards in feed tray
Consumables	Dye film cassettes, card dispensers and dye film rolls	50 PVC cards + 50 image YMCKO dye film ribbon bundle HiCo mag stripe and HoloPatch cards also available PF3 : 500 image black dye film	TM1 : 250 image YMCKO dye film roll PF3 : 500 image black dye film	AV1 : 250 image YMCKO dye film roll LC1 : 350 image YMCKO dye film roll LC3 : 1,000 image monochrome dye film roll in range of colours LC6 : 600 image KO (black & overcoat) 100 image YMCKO dye film	100 PVC cards + 100 image YMCKO dye film ribbon bundle HiCo mag stripe and HoloPatch cards also available PF3 : 500 image black dye film	LC1 : 350 image YMCKO dye film roll LC6 : 600 image KO (black & overcoat) LC8 : 300 image YMCKOK dye film roll (Tango 2e only) LC3 : 1,000 image monochrome film cassette	1,000 YMCK four panel dye film cassette 1,000 image roll re-transfer film 750 YMCKK five panel dye film cassette
	Laminates				Patch & Holographic laminates	Patch & Holographic laminates	
Security	Security watermark	Standard HoloKote (waves)	Standard HoloKote (linked squares)	Standard HoloKote (globes)	Custom HoloKote (text only)	Custom HoloKote	UV hologram in laminate
	Gold seal	HoloPatch	HoloPatch	HoloPatch	HoloPatch	HoloPatch	
Encoding	Magnetic stripe	Optional HiCo encoder ISO std. 7811	Optional HiCo encoder ISO std. 7811	Optional HiCo encoder ISO std. 7811	Optional HiCo encoder ISO std. 7811	Optional HiCo encoder ISO std. 7811	Optional HiCo encoder ISO std. 7811
	Smartcard encoder				Optional chip contact programming facility	Optional chip contact programming facility	
	Prox. card (contactless)				Various contactless smart card options available	Various contactless smart card options available	
Printer	Printer interface	USB rev.1.1 (USB 2.0 compatible)	USB rev.1.1 (USB 2.0 compatible)	USB rev.1.1 (USB 2.0 compatible)	USB rev.1.1 (USB 2.0 compatible)	USB, parallel and ethernet ports all standard	USB 2.0
	Drivers/software	Windows 2000, 2003, XP Magiccard ID badging software	Windows 2000, 2003, XP	Windows 2000, 2003, XP	Windows 2000, 2003, XP	Windows 2000, 2003, XP	Windows 2000, XP
	Dimensions	Opera: 175mm W x 200mm H x 211mm D (6.9" W x 7.8" H x 8.3" D) Opera 105: 175mm W x 200mm H x 261mm D (6.9" W x 7.8" H x 10.3" D)	Tempo: 175mm W x 200mm H x 211mm D (6.9" W x 7.8" H x 8.3" D) Tempo M: 175mm W x 200mm H x 261mm D (6.9" W x 7.8" H x 10.3" D)	200mm W x 220mm H x 445mm D (7.9" W x 8.7" H x 17.5" D)	Alto: 175mm W x 200mm H x 211mm D (6.9" W x 7.8" H x 8.3" D) Alto M: 175mm W x 200mm H x 261mm D (6.9" W x 7.8" H x 10.3" D)	Rio: 193.5mm W x 232.5mm H x 369.5mm D (7.6" W x 9.15" H x 14.55" D) including hopper and stacker Tango: 193.5mm W x 232.5mm H x 471.1mm D (7.6" W x 9.15" H x 18.58" D) including hopper and stacker	340mm W x 381mm H x 340mm D (13.4" W x 15" H x 13.4" D)
	Warranty	12 months limited warranty	12 months limited warranty	2 years limited warranty (EU & North America only)	2 years free UltraCoverPlus (EU & North America only)	2 years free UltraCoverPlus (EU & North America only)	2 years free UltraCoverPlus (EU & North America only)

Elsewhere 12 months limited warranty



ISO 9001 accredited



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